

Title (en)

IMAGE PROCESSING APPARATUS AND METHOD FOR FEATURE EXTRACTION

Title (de)

BILDERVERARBEITUNGSVORRICHTUNG UND VERFAHREN ZUR MERKMALSEXTRAKTION

Title (fr)

APPAREIL DE TRAITEMENT D'IMAGES ET PROCÉDÉ D'EXTRACTION DE CARACTÉRISTIQUES

Publication

EP 3827582 A4 20210721 (EN)

Application

EP 18930015 A 20180814

Priority

CN 2018100381 W 20180814

Abstract (en)

[origin: WO2020034083A1] The invention relates to an image processing apparatus for extracting a feature from an image of a scene. The apparatus may comprises processing circuitry configured, in response to a feature extraction event, to extract a feature from first image data representing a first image of a scene, wherein the feature extraction event is based on second image data representing a second image of the scene. The image processing apparatus may include an event driven sensor and the second image may include a positive/negative amount of the intensity change and the location of the intensity change. Moreover, the invention relates to a corresponding image processing method.

IPC 8 full level

G06T 7/20 (2017.01); **G06T 7/254** (2017.01); **H04N 7/18** (2006.01)

CPC (source: EP US)

G06T 3/40 (2013.01 - US); **G06T 7/20** (2013.01 - US); **G06T 7/254** (2016.12 - EP US); **G06V 20/46** (2022.01 - US); **H04N 7/188** (2013.01 - EP); **G06T 2207/10016** (2013.01 - US); **G06T 2207/20016** (2013.01 - US); **G06T 2207/20084** (2013.01 - US); **G06T 2207/20221** (2013.01 - US)

Citation (search report)

- [X] CENSI ANDREA ET AL: "Low-latency event-based visual odometry", 2014 IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION (ICRA), IEEE, 31 May 2014 (2014-05-31), pages 703 - 710, XP032650286, DOI: 10.1109/ICRA.2014.6906931
- [X] ELIAS MUEGGLER ET AL: "Continuous-Time Visual-Inertial Trajectory Estimation with Event Cameras", ARXIV.ORG, CORNELL UNIVERSITY LIBRARY, 201 OLIN LIBRARY CORNELL UNIVERSITY ITHACA, NY 14853, 23 February 2017 (2017-02-23), XP080748368
- [X] BARDOW PATRICK ET AL: "Simultaneous Optical Flow and Intensity Estimation from an Event Camera", 2016 IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR), IEEE, 27 June 2016 (2016-06-27), pages 884 - 892, XP033021219, DOI: 10.1109/CVPR.2016.102
- See references of WO 2020034083A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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